RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/528,542_
Source: _PCT_
Date Processed by STIC: _3/16/06_

ENTERED

RAW SEQUENCE LISTING   DATE: 03/16/2006
PATENT APPLICATION: US/10/528,542   TIME: 11:49:57

Input Set : A:\70826-01 seq list.txt
Output Set: N:\CRF4\03162006\J528542.raw

```
     3 <110> APPLICANT: MCGILL UNIVERSITY
     4        GAGNON, Martin
     5        SARAGOVI, H. Uri
     7 <120> TITLE OF INVENTION: LIGANDS OF GANGLIOSIDE GD2 AND USES THEREOF
     9 <130> FILE REFERENCE: 4810-70826-01
    11 <140> CURRENT APPLICATION NUMBER: US 10/528,542
C--> 12 <141> CURRENT FILING DATE: 2005-03-21
    14 <150> PRIOR APPLICATION NUMBER: US 60/412,492
    15 <151> PRIOR FILING DATE: 2002-09-20
    17 <160> NUMBER OF SEQ ID NOS: 23
    19 <170> SOFTWARE: PatentIn version 3.2
    22 <210> SEQ ID NO: 1
    23 <211> LENGTH: 13
    24 <212> TYPE: PRT
    25 <213> ORGANISM: Artificial
    27 <220> FEATURE:
    28 <223> OTHER INFORMATION: GD2 Ligand
    30 <220> FEATURE:
    31 <221> NAME/KEY: MISC_FEATURE
    32 <222> LOCATION: (1)..(1)
    33 <223> OTHER INFORMATION: Xaa = Absent or Tyr or an analogue thereof.
    35 <220> FEATURE:
    36 <221> NAME/KEY: MOD_RES
    37 <222> LOCATION: (1)..(1)
    38 <223> OTHER INFORMATION: The N-terminal group may be of the formula H2N-, RHN-, or,
RRN-,
    39        wherein R at each occurence is independently selected from (C1-C6)
    40        alkyl, (C1-C6) alkenyl, (C1-C6) alkynyl, substituted (C1-C6) alkyl,
    41        substituted (C1-C6) alkenyl, or substituted (C1-C6) alkynyl.
    43 <220> FEATURE:
    44 <221> NAME/KEY: MISC_FEATURE
    45 <222> LOCATION: (2)..(2)
    46 <223> OTHER INFORMATION: Xaa = Absent or Cys or an analogue thereof.
    48 <220> FEATURE:
    49 <221> NAME/KEY: MISC_FEATURE
    50 <222> LOCATION: (3)..(3)
    51 <223> OTHER INFORMATION: Xaa = Gly or Tyr or an analogue thereof.
    53 <220> FEATURE:
    54 <221> NAME/KEY: MISC_FEATURE
    55 <222> LOCATION: (4)..(4)
    56 <223> OTHER INFORMATION: Xaa = Gly or Cys or Tyr or an analogue thereof.
    58 <220> FEATURE:
    59 <221> NAME/KEY: MISC_FEATURE
    60 <222> LOCATION: (5)..(5)
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 61 <223> OTHER INFORMATION: Xaa = Ile or Cys or an analogue thereof.
 63 <220> FEATURE:
 64 <221> NAME/KEY: MISC_FEATURE
 65 <222> LOCATION: (6)..(6)
 66 <223> OTHER INFORMATION: Xaa = Thr or Ala or an analogue thereof.
 68 <220> FEATURE:
 69 <221> NAME/KEY: MISC_FEATURE
 70 <222> LOCATION: (7)..(7)
 71 <223> OTHER INFORMATION: Xaa = Asn or an analogue thereof.
 73 <220> FEATURE:
 74 <221> NAME/KEY: MISC_FEATURE
 75 <222> LOCATION: (8)..(8)
 76 <223> OTHER INFORMATION: Xaa = Tyr or an analogue thereof.
 78 <220> FEATURE:
 79 <221> NAME/KEY: MISC_FEATURE
 80 <222> LOCATION: (9)..(9)
 81 <223> OTHER INFORMATION: Xaa = Asn or Gly or an analogue thereof.
 83 <220> FEATURE:
 84 <221> NAME/KEY: MISC_FEATURE
 85 <222> LOCATION: (10)..(10)
 86 <223> OTHER INFORMATION: Xaa = Ser or Cys or Val or Thr or an analogue thereof.
 88 <220> FEATURE:
 89 <221> NAME/KEY: MISC_FEATURE
 90 <222> LOCATION: (11)..(11)
 91 <223> OTHER INFORMATION: Xaa = Ala or Cys or Tyr or His or Ser or an analogue thereof.
 93 <220> FEATURE:
 94 <221> NAME/KEY: MISC_FEATURE
 95 <222> LOCATION: (12)..(12)
 96 <223> OTHER INFORMATION: Xaa = absent or Leu or Cys or Tyr or an analogue thereof.
 98 <220> FEATURE:
 99 <221> NAME/KEY: MISC_FEATURE
100 <222> LOCATION: (13)..(13)
101 <223> OTHER INFORMATION: Xaa = absent or Met or Tyr or an analogue thereof.
103 <220> FEATURE:
104 <221> NAME/KEY: MOD_RES
105 <222> LOCATION: (13)..(13)
106 <223> OTHER INFORMATION: C-terminal grp is of the formula -C(O)OH, -C(O)R, -C(O)OR,
107       -C(O)NHR, -C(O)NRR; wherein each R is independently selected from
108       (C1-C6) alkyl, (C1-C6) alkenyl, (C1-C6) alkynyl, substituted (C1-C6)
109       alkyl, substituted (C1-C6) alkenyl, or substituted (C1-C6) alkynyl.
111 <400> SEQUENCE: 1
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W--> 112 **Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa**
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113 1               5                    10
116 <210> SEQ ID NO: 2
117 <211> LENGTH: 13
118 <212> TYPE: PRT
119 <213> ORGANISM: Artificial
121 <220> FEATURE:
122 <223> OTHER INFORMATION: GD2 Ligand
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           RAW SEQUENCE LISTING                 DATE: 03/16/2006
           PATENT APPLICATION:  US/10/528,542   TIME: 11:49:57

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124 <220> FEATURE:
125 <221> NAME/KEY: MISC_FEATURE
126 <222> LOCATION: (1)..(1)
127 <223> OTHER INFORMATION: Xaa = Absent or Tyr or an analogue thereof.
129 <220> FEATURE:
130 <221> NAME/KEY: MISC_FEATURE
131 <222> LOCATION: (2)..(2)
132 <223> OTHER INFORMATION: Xaa = Absent or Cys or an analogue thereof.
134 <220> FEATURE:
135 <221> NAME/KEY: MISC_FEATURE
136 <222> LOCATION: (3)..(3)
137 <223> OTHER INFORMATION: Xaa = Gly or Tyr or an analogue thereof.
139 <220> FEATURE:
140 <221> NAME/KEY: MISC_FEATURE
141 <222> LOCATION: (4)..(4)
142 <223> OTHER INFORMATION: Xaa = Gly or Cys or Tyr or an analogue thereof.
144 <220> FEATURE:
145 <221> NAME/KEY: MISC_FEATURE
146 <222> LOCATION: (5)..(5)
147 <223> OTHER INFORMATION: Xaa = Ile or Cys or an analogue thereof.
149 <220> FEATURE:
150 <221> NAME/KEY: MISC_FEATURE
151 <222> LOCATION: (6)..(6)
152 <223> OTHER INFORMATION: Xaa = Thr or Ala or an analogue thereof.
154 <220> FEATURE:
155 <221> NAME/KEY: MISC_FEATURE
156 <222> LOCATION: (7)..(7)
157 <223> OTHER INFORMATION: Xaa = Asn or an analogue thereof.
159 <220> FEATURE:
160 <221> NAME/KEY: MISC_FEATURE
161 <222> LOCATION: (8)..(8)
162 <223> OTHER INFORMATION: Xaa = Tyr or an analogue thereof.
164 <220> FEATURE:
165 <221> NAME/KEY: MISC_FEATURE
166 <222> LOCATION: (9)..(9)
167 <223> OTHER INFORMATION: Xaa = Asn or Gly or an analogue thereof.
169 <220> FEATURE:
170 <221> NAME/KEY: MISC_FEATURE
171 <222> LOCATION: (10)..(10)
172 <223> OTHER INFORMATION: Xaa = Ser or Cys or Val or Thr or an analogue thereof.
174 <220> FEATURE:
175 <221> NAME/KEY: MISC_FEATURE
176 <222> LOCATION: (11)..(11)
177 <223> OTHER INFORMATION: Xaa = Ala or Cys or Tyr or His or Ser or an analogue
thereof.
179 <220> FEATURE:
180 <221> NAME/KEY: MISC_FEATURE
181 <222> LOCATION: (12)..(12)
182 <223> OTHER INFORMATION: Xaa = Absent or Leu or Cys or Tyr or an analogue thereof.
184 <220> FEATURE:
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Output Set: N:\CRF4\03162006\J528542.raw

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185 <221> NAME/KEY: MISC_FEATURE
186 <222> LOCATION: (13)..(13)
187 <223> OTHER INFORMATION: Xaa = Absent or Met or Tyr or an analogue thereof.
189 <400> SEQUENCE: 2
190 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
191 1               5                   10
194 <210> SEQ ID NO: 3
195 <211> LENGTH: 11
196 <212> TYPE: PRT
197 <213> ORGANISM: Artificial
199 <220> FEATURE:
200 <223> OTHER INFORMATION: GD2 Ligand
202 <400> SEQUENCE: 3
203 Gly Gly Ile Thr Asn Tyr Asn Ser Ala Leu Met
204 1               5                   10
207 <210> SEQ ID NO: 4
208 <211> LENGTH: 13
209 <212> TYPE: PRT
210 <213> ORGANISM: Artificial
212 <220> FEATURE:
213 <223> OTHER INFORMATION: GD2 Ligand
215 <400> SEQUENCE: 4
216 Tyr Cys Gly Gly Ile Thr Asn Tyr Asn Ser Ala Cys Tyr
217 1               5                   10
220 <210> SEQ ID NO: 5
221 <211> LENGTH: 10
222 <212> TYPE: PRT
223 <213> ORGANISM: Artificial
225 <220> FEATURE:
226 <223> OTHER INFORMATION: GD2 Ligand
228 <400> SEQUENCE: 5
229 Tyr Cys Ile Thr Asn Tyr Asn Ser Cys Tyr
230 1               5                   10
233 <210> SEQ ID NO: 6
234 <211> LENGTH: 11
235 <212> TYPE: PRT
236 <213> ORGANISM: Artificial
238 <220> FEATURE:
239 <223> OTHER INFORMATION: GD2 Ligand
241 <400> SEQUENCE: 6
242 Tyr Cys Gly Gly Ile Thr Asn Tyr Asn Cys Tyr
243 1               5                   10
246 <210> SEQ ID NO: 7
247 <211> LENGTH: 10
248 <212> TYPE: PRT
249 <213> ORGANISM: Artificial
251 <220> FEATURE:
252 <223> OTHER INFORMATION: GD2 Ligand
254 <400> SEQUENCE: 7
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W--> (at line 190)

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256 1               5                   10
259 <210> SEQ ID NO: 8
260 <211> LENGTH: 9
261 <212> TYPE: PRT
262 <213> ORGANISM: Artificial
264 <220> FEATURE:
265 <223> OTHER INFORMATION: GD2 Ligand
267 <400> SEQUENCE: 8
268 Tyr Cys Thr Asn Tyr Gly Val Cys Tyr
269 1               5
272 <210> SEQ ID NO: 9
273 <211> LENGTH: 9
274 <212> TYPE: PRT
275 <213> ORGANISM: Artificial
277 <220> FEATURE:
278 <223> OTHER INFORMATION: GD2 Ligand
280 <400> SEQUENCE: 9
281 Gly Gly Ile Ala Asn Tyr Asn Thr Ser
282 1               5
285 <210> SEQ ID NO: 10
286 <211> LENGTH: 11
287 <212> TYPE: PRT
288 <213> ORGANISM: Artificial
290 <220> FEATURE:
291 <223> OTHER INFORMATION: GD2 Ligand
293 <400> SEQUENCE: 10
294 Tyr Cys Gly Gly Ile Ala Asn Tyr Asn Cys Tyr
295 1               5                   10
298 <210> SEQ ID NO: 11
299 <211> LENGTH: 13
300 <212> TYPE: PRT
301 <213> ORGANISM: Artificial
303 <220> FEATURE:
304 <223> OTHER INFORMATION: GD2 Ligand
306 <400> SEQUENCE: 11
307 Tyr Cys Gly Gly Ile Ala Asn Tyr Asn Thr Ser Cys Tyr
308 1               5                   10
311 <210> SEQ ID NO: 12
312 <211> LENGTH: 10
313 <212> TYPE: PRT
314 <213> ORGANISM: Artificial
316 <220> FEATURE:
317 <223> OTHER INFORMATION: GD2 Ligand
319 <400> SEQUENCE: 12
320 Tyr Cys Ile Ala Asn Tyr Asn Thr Cys Tyr
321 1               5                   10
324 <210> SEQ ID NO: 13
325 <211> LENGTH: 5
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 03/16/2006
PATENT APPLICATION: **US/10/528,542**   TIME: 11:49:58

Input Set : **A:\70826-01 seq list.txt**
Output Set: **N:\CRF4\03162006\J528542.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13
Seq#:2; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22

VERIFICATION SUMMARY   DATE: 03/16/2006
PATENT APPLICATION: US/10/528,542   TIME: 11:49:58

Input Set : A:\70826-01 seq list.txt
Output Set: N:\CRF4\03162006\J528542.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0